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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/526,499	10/05/2005	Pierre Dufresne	PET-2164	7333
Millen White	7590 10/30/200	8	EXAMINER	
Zelano & Brani		HAILEY, PATRICIA L		
Arlington Courthouse Plaza I 2200 Clarendon Boulevard Suite 1400			ART UNIT	PAPER NUMBER
Arlington, VA	22201		1793	
			MAIL DATE	DELIVERY MODE
			10/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/526,499	DUFRESNE ET AL.					
Office Action Summary	Examiner	Art Unit					
	PATRICIA L. HAILEY	1793					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period versions after the reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	lely filed the mailing date of this communication. (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>07 Ju</u>	ılv 2008.						
	action is non-final.						
<i>'</i>	, <del>_</del>						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1 and 4-20</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1 and 4-20</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	· · · · · · · · · · · · · · · · · · ·						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	ite					

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Applicants' remarks and amendments, filed on July 7, 2008, have been carefully considered. Claims 2 and 3 have been canceled; no claims have been added.

Claims 1 and 4-20 remain pending in this application.

# Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Applicants' Priority Document was filed on March 4, 2005.

# Withdrawn Rejections

The 112(2) rejection of claims 11-15 stated in the previous Office Action has been withdrawn in view of Applicants' amendments thereto.

The 103(a) rejections of claims 1, 6-8, 11-16, and 18-20 as being unpatentable over Dufresne et al. (U. S. Patent No. 5,922,638), and of claims 3-7, 9, and 10 as being unpatentable over Dufresne et al. (U. S. Patent No. 5,922,638) as applied to claims 1, 6-8, 11-16, and 18-20 above, and further in view of Dufresne (U. S. Patent No. 6,059,956, Applicants' submitted art), have been withdrawn in view of Applicants' amendment to claim 1.

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# Withdrawn Indication of Allowable Subject Matter

2. The indicated allowability of claim 2 (stated in the previous Office Action) is withdrawn in view of the Examiner's reconsideration of the cited references of record.

## New Grounds of Rejection

The following New Grounds of Rejection are being made in view of the Examiner's reconsideration of the cited references of record.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Objections

3. Claim 1 is objected to because of the following informalities:

Lines 2 and 3 of claim 1 respectively recite the terms "sulfurized" and "sulphurized". It is respectfully requested that one of these terms be amended so that the terms be identical.

Appropriate correction is required.

### Claim Rejections - 35 USC § 103

4. Claims 1 and 4-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dufresne et al. (U. S. Patent No. 5,922,638) in view of Dufresne (U. S. Patent No. 6,059,956).

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Dufresne et al. teach a process for ex-situ sulfurization of a catalyst, wherein the catalyst is brought into contact with a presulfurizing agent that contains elemental sulfur and an organic liquid, examples of which include gas oils and fatty acid triglycerides. See col. 2, line 52 to col. 3, line 39 (considered to read upon claims 11-15, 18, and 20, as well as the limitation "sulphurized catalyst" in claim 1).

After sulfurization, the catalyst may be subjected to ex-situ activation, followed by passivation treatment. This treatment can be carried out by passing an oxidized gas flow through the catalytic mass (considered to read upon the "first step" of **claim 1**). See col. 5, line 62 to col. 6, line 13 of Dufresne et al. (considered to read upon **claims 6** and 7), which also discloses that the catalyst is kept in motion during the activation stage, for example by carrying out activation in a rotary reactor tank (**claim 8**).

Example 1 of Dufresne et al. depicts an embodiment wherein a catalyst comprising CoO and MoO<sub>3</sub> is subjected to sulfurization (considered to read upon claims 16 and 19).

Although Dufresne et al. do not explicitly disclose an "ex situ oxidizing passivation" process, as instantly claimed, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Dufresne et al. by incorporating therein Patentees' passivation treatment, motivated by the teachings of Dufresne et al. that such a treatment can be performed on the presulfurized catalyst disclosed therein.

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Dufresne et al. does not explicitly teach the subsequent step of contacting the catalyst with at least one organic liquid after contact with an oxidizing gas stream.

Dufresne teaches a pretreatment or activation process for a hydrocarbon hydroconversion catalyst, involving off-site incorporation into the catalyst of at least one sulphuration agent and/or at least one other suitable solvent (e.g., a triglyceride of unsaturated fatty acids such as vegetable oils). See col. 2, line 13 to col. 3, line 4 of Dufresne (considered to read upon the "second step" of **claim 1**).

The process also involves off-site treatment with pure or diluted hydrogen under conditions such as fixed, mobile, expanded, or fluidized bed to maximize homogeneity in the distribution of the sulphuration agent (considered to read upon claims 9 and 10), and also ex situ passivation, wherein a stream of oxygen and/or a stream of air are passed over the catalyst (considered to read upon the "second step" of claim 3).

Contact of the catalyst with oxygen may be made in two stages or several stages (considered to read upon claims 4-7; the partial pressures recited therein are considered to be process optimization parameters). See col. 3, lines 5-61 of Dufresne.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the process of Dufresne et al. by incorporating therein the process of Dufresne, because the ex situ passivation disclosed by Dufresne eliminates the pyrophoric tendency of the catalyst's sulphide phases, and also positively affects the catalyst's activity. See col. 4, lines 40-44 of Dufresne.

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The combination of these references as set forth above are considered to read upon Applicants' claimed steps of contacting a sulfurized catalyst with at least one oxidizing gas stream, and contacting the catalyst with at least one organic liquid.

Although Applicants' claims refer to these steps as "first" and "second" steps, the claims in their present form do not require that these steps must be performed immediately sequentially (i.e., that the contact with the organic liquid *immediately* follows contact with the oxidizing gas stream).

Further, it has been held that selection of any order of performing process steps is prima facie obvious in the absence of new or unexpected results, see MPEP 2144.04, section C, and also <u>In re Burhans</u>, 154 F.2d 690, 69 USPQ 330 (CCPA 1946), and <u>In re Gibson</u>, 39 F.2d 975, 5USPQ 230 (CCPA 1930).

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PATRICIA L. HAILEY whose telephone number is (571)272-1369. The examiner can normally be reached on Mondays-Fridays, from 7:00 a.m. to 3:30 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo, can be reached on (571) 272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 1700 Receptionist, whose telephone number is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PATRICIA L. HAILEY/ Examiner, Art Unit 1793 October 27, 2008